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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/697,518	10/25/2000	Kulbir Sandhu	M-9069 US	4496

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EXAMINER

LE, THANG Q

ART UNIT PAPER NUMBER

2683

DATE MAILED: 10/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/697,518

PRG
Applicant(s)

SANDHU ET AL.

Examiner

Thang Q Le

Art Unit

2683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 October 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fan et al (US 5959577) in view of Buck et al (US 5719771).

1. As to claim 1, Fan teaches a mobile control apparatus comprising :
a position circuit for receiving ranging signals over a first wireless link from a positioning system and for providing a position of said mobile position apparatus; (fig. 1 and col. 2; line 60- col. 3; line 46)

a communication interface for maintaining a wireless link for communicating with a server on a wide area network; (fig. 1 and col. 2; line 60- col. 3; line 46)

Fan fails to disclose a peripheral interface to a peripheral device, said interface provided to transfer control information between said peripheral device and said mobile control apparatus; a controller for executing a program that controls operations of said position circuit, said communication interface, and said peripheral interface and transfers said position and said control information to said server; and a memory for storing said program. However Buck teaches a peripheral interface to a peripheral device, said interface provided to transfer control information between said peripheral device and a mobile control apparatus (col. 11; lines 21-52);

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a controller (processor 274; fig. 2A) for executing a program that controls operations of the position circuit (272), the communication interface (275), and the peripheral interface (273) and transfers the position and the control information to a server (col.11; lines 21-52); and Buck inherently teaches a memory for storing the program (fig. 2B).

Therefore, it would have been obvious to one of ordinary skill in art at the time invention was made to apply the teachings of Buck into the system of Fan in order to provide a mobile communicator that are robust and resistant to unusually adverse conditions which result from environmental or external forces/ sources so as to provide convenience for users.

2. As to claim 2, Fan teaches the mobile control apparatus including communication interface that comprises a modem capable of operating in a cellular telephone system (col. 10; lines 6-14).

3. As to claim 3, Fan teaches the mobile control apparatus including the circuit comprises a down-converter for a global position system (GPS) (col. 3; lines 16-20).

As to claim 4, Fan teaches the position circuit determines said position based on triangulation of ranging signals (col. 3; lines 34-38).

4. As to claim 5, Buck teaches a system bus connects each of various devices to central processing unit of mobile communicator system (see fig. 2B).

5. As to claim 6, Buck teaches the memory comprises a non-volatile portion (ROM) and a volatile portion (RAM).

6. As to claims 7 and 8, Fan teaches the position circuit (131) comprises a radio frequency front-end circuit (130) and a signal processing circuit (132) (Fig. 5 and col. 9; lines 49-57)

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7. As to claim 9, Fan teaches the controller comprises a general-purpose microprocessor (135) (Fig.5 and col.9; line 49- col. 10; line 21).


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thang Q Le whose telephone number is (703)305-4367. The examiner can normally be reached on Monday-Friday 8AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703)308-5318. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)308-5403 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-4700.

THANG LE
September 30, 2002


WILLIAM TROST
SUPERVISORY PATENT EXAMINER
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